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Serial Number: 10/671,367

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Inventor Information for 10/671367

Inventor Name	City	State/Country
KROLL, MARK W.	SIMI VALLEY	CALIFORNIA
POORE, JOHN W.	SOUTH PASADENA	CALIFORNIA

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US 5833712 A	USPAT	19981110	Implantable defibrillator system for generating a biphasic waveform	607/7	607/5; 607/74	Kroll; Mark W. et al.
US 5830236 A	USPAT	19981103	System for delivering low pain therapeutic electrical waveforms to the heart	607/5		Mouchawar; Gabriel et al.
US 5827326 A	USPAT	19981027	Implantable cardioverter defibrillator having a smaller energy storage capacity	607/5		Kroll; Mark W. et al.
US 5814075 A	USPAT	19980929	Method and apparatus for optimizing source allocation within an implantable cardioverter-defibrillator	607/5	607/34	Kroll; Mark W.
US 5782883 A	USPAT	19980721	Suboptimal output device to manage cardiac tachyarrhythmias	607/14		Kroll; Kai et al.
US 5772690 A	USPAT	19980630	System having a	607/7		Kroll; Mark

			surrogate defibrillation electrode for testing implantable cardioverter-defibrillators during implant			W.
US 5772689 A	USPAT	19980630	Implantable cardioverter-defibrillator with apical shock delivery	607/4		Kroll; Mark W.
US 5761019 A	USPAT	19980602	Medical current limiter	361/58	128/908; 361/93.9	Kroll; Mark W.
US 5749910 A	USPAT	19980512	Shield for implantable cardioverter defibrillator	607/36		Brumwell; Dennis A. et al.
US 5741307 A	USPAT	19980421	Method for determining an ICD replacement time	607/5	607/29	Kroll; Mark W.
US 5741303 A	USPAT	19980421	Electrode back-charging pre-treatment system for an implantable cardioverter defibrillator	607/5		Kroll; Mark W. et al.
US 5738105 A	USPAT	19980414	Method and apparatus for sensing R-waves using both near field and far field sensing simultaneously	600/510	600/374; 600/515; 607/5	Kroll; Mark W.
US 5735878 A	USPAT	19980407	Implantable defibrillator having multiple pathways	607/5		Kroll; Mark W. et al.
US 5735876 A	USPAT	19980407	Electrical cardiac output forcing method and apparatus for an atrial defibrillator	607/5		Kroll; Kai et al.
US 5733309 A	USPAT	19980331	Method and apparatus for capacitive switching output for implantable cardioverter defibrillator	607/5		Kroll; Mark W. et al.
US 5718718 A	USPAT	19980217	Method and apparatus for polarity reversal of consecutive defibrillation countershocks having back biasing precharge pulses	607/5		Kroll; Mark W. et al.
US 5713944 A	USPAT	19980203	Cardioversion-	607/122		Kroll; Mark

			defibrillation catheter lead having selectively exposable outer conductors			W.
US 5709709 A	USPAT	19980120	ICD with rate-responsive pacing	607/4	607/122; 607/6; 607/8	Kroll; Mark W.
US 5697959 A	USPAT	19971216	Method and system for analyzing and displaying complex pacing event records	607/32	607/30	Poore; John W.
US 5697953 A	USPAT	19971216	Implantable cardioverter defibrillator having a smaller displacement volume	607/5		Kroll; Mark W. et al.
US 5690685 A	USPAT	19971125	Automatic battery-maintaining implantable cardioverter defibrillator and method for use	607/5	607/29; 607/34	Kroll; Mark W. et al.
US 5674248 A	USPAT	19971007	Staged energy concentration for an implantable biomedical device	607/5		Kroll; Mark W. et al.
US 5662696 A	USPAT	19970902	One piece disposable threshold test can electrode for use with an implantable cardioverter defibrillator system	607/116	607/36; 607/37; 607/8	Kroll; Mark W. et al.
US 5662534 A	USPAT	19970902	Golf ball finding system	473/353	473/372	Kroll; Braden W. et al.
US 5658319 A	USPAT	19970819	Implantable cardioverter defibrillator having a high voltage capacitor	607/7	607/5	Kroll; Mark W.
US 5649974 A	USPAT	19970722	Low profile defibrillation catheter	607/122	29/825	Nelson; Randall S. et al.
US 5645573 A	USPAT	19970708	Optimal pulse defibrillator	607/7		Kroll; Mark W. et al.
US 5645572 A	USPAT	19970708	Implantable cardioverter defibrillator with slew rate limiting	607/5	128/901; 607/36	Kroll; Mark W. et al.
US 5643323 A	USPAT	19970701	System and method inducing fibrillation using an implantable defibrillator	607/2		Kroll; Mark W. et al.

US 5620473 A	USPAT	19970415	Calibration system for pacemaker-generated intracardiac electrogram	607/27	607/31; 607/32	Poore; John W.
US 5620469 A	USPAT	19970415	Stepped cardioversion system for an implantable cardioverter defibrillator	607/7	607/5	Kroll; Mark W.
US 5620464 A	USPAT	19970415	System and method for delivering multiple closely spaced defibrillation pulses	607/5		Kroll; Mark W. et al.
US 5607460 A	USPAT	19970304	Physician interface expert system for programming implantable arrhythmia treatment devices	607/30	607/59	Kroll; Mark W. et al.
US 5591210 A	USPAT	19970107	Implantable defibrillation system and method for producing only short pulse waveforms	607/5		Kroll; Mark W. et al.
US 5591209 A	USPAT	19970107	Implantable defibrillator system for generating an active biphasic waveform	607/5	607/74	Kroll; Mark W.
US 5549933 A	USPAT	19960827	Process for painting snow	434/84	106/160.1; 427/136; 427/137; 427/212; 427/256; 427/427.3; 427/427.4	Adams; Theodore P. et al.
US 5549643 A	USPAT	19960827	Optimal pulse defibrillator	607/7		Kroll; Mark W. et al.
US 5540721 A	USPAT	19960730	Process and apparatus for defibrillation system with a small capacitor	607/5	607/74	Kroll; Mark W.
US 5534015 A	USPAT	19960709	Method and apparatus for generating biphasic waveforms in an implantable defibrillator	607/7	607/5; 607/74	Kroll; Mark W. et al.
US 5531782 A	USPAT	19960702	Implantable medical electrode with reduced number of conductors	607/122		Kroll; Mark W. et al.
US 5531770 A	USPAT	19960702	Device and method for determining	607/8		Kroll; Mark W. et al.

			defibrillation thresholds			
US 5531766 A	USPAT	19960702	Implantable cardioverter defibrillator pulse generator kite-tail electrode system	607/5	607/36; 607/9	Kroll; Mark W. et al.
US 5531764 A	USPAT	19960702	Implantable defibrillator system and method having successive changeable defibrillation waveforms	607/5	607/15	Adams; Theodore P. et al.
US 5527346 A	USPAT	19960618	Implantable cardioverter defibrillator employing polymer thin film capacitors	607/5		Kroll; Mark W.
US 5522853 A	USPAT	19960604	Method and apparatus for progressive recruitment of cardiac fibrillation	607/5		Kroll; Mark W.
US 5514164 A	USPAT	19960507	DDD pacing response to atrial tachycardia and retrograde conduction	607/25	607/14	Mann; Brian M. et al.
US 5514160 A	USPAT	19960507	Implantable defibrillator for producing a rectangular-shaped defibrillation waveform	607/5		Kroll; Mark W. et al.
US 5507781 A	USPAT	19960416	Implantable defibrillator system with capacitor switching circuitry	607/7	607/5; 607/74	Kroll; Mark W. et al.
US 5487755 A	USPAT	19960130	Methods for displaying a sequential series of pacing events	607/27		Snell; Jeffery D. et al.
US 5487754 A	USPAT	19960130	Method and apparatus for reporting and displaying a sequential series of pacing events	607/27		Snell; Jeffery D. et al.
US 5458620 A	USPAT	19951017	Cardiac arrhythmia detection using interdependent multiple parameter settings	607/5	128/925; 600/518	Adams; Theodore P. et al.
US 5454839 A	USPAT	19951003	Low profile defibrillation catheter	607/123		Anderson; Kenneth M. et al.
US 5449377 A	USPAT	19950912	Overcharged final countershock for an implantable cardioverter	607/7		Adams; Theodore P. et al.

			defibrillator and method			
US 5447521 A	USPAT	19950905	Safety system for an implantable defibrillator	607/5	600/547; 607/37; 607/6	Anderson; Kenneth M. et al.
US 5441518 A	USPAT	19950815	Implantable cardioverter defibrillator system having independently controllable electrode discharge pathway	607/5		Adams; Theodore P. et al.
US 5439482 A	USPAT	19950808	Prophylactic implantable cardioverter-defibrillator	607/5	607/36	Adams; Theodore P. et al.
US 5431691 A	USPAT	19950711	Method and system for recording and displaying a sequential series of pacing events	607/27		Snell; Jeffery D. et al.
US 5431687 A	USPAT	19950711	Impedance timed defibrillation system	607/8		Kroll; Mark W.
US 5431686 A	USPAT	19950711	Method for optimal pulse defibrillation using an implantable defibrillator	607/7	607/6	Kroll; Mark W. et al.
US 5423869 A	USPAT	19950613	Multi-sensor rate-responsive pacemaker and method of operating same	607/18	607/19; 607/22	Poore; John W. et al.
US 5423867 A	USPAT	19950613	Rate-responsive pacemaker having automatic sensor threshold with programmable offset	607/17		Poore; John W. et al.
US 5417718 A	USPAT	19950523	System for maintaining capture in an implantable pulse generator	607/28	607/27	Kleks; Jonathan A. et al.
US 5417714 A	USPAT	19950523	DDI pacing with PVC-protected hysteresis and automatic AV interval adjustment	607/9		Levine; Paul A. et al.
US 5411526 A	USPAT	19950502	Improved implantable defibrillator system for producing true-voltage-pulse waveforms	607/5		Kroll; Mark W. et al.
US 5407444 A	USPAT	19950418	Staged energy concentration for a	607/5	320/103; 320/166	Kroll; Mark W.

			defibrillator			
US 5405363 A	USPAT	19950411	Implantable cardioverter defibrillator having a smaller displacement volume	607/5	607/36	Kroll; Mark W. et al.
US 5391186 A	USPAT	19950221	Method and apparatus for utilizing short tau capacitors in an implantable cardioverter defibrillator	607/5		Kroll; Mark W. et al.
US 5391185 A	USPAT	19950221	Atrial cardioverter with ventricular protection	607/4		Kroll; Mark W.
US 5387229 A	USPAT	19950207	Multi-sensor cardiac pacemaker with sensor event recording capability	607/18		Poore; John W.
US 5383907 A	USPAT	19950124	System and method for delivering multiple closely spaced defibrillation pulses	607/5		Kroll; Mark W.
US 5376103 A	USPAT	19941227	Electrode system for implantable defibrillator	607/5		Anderson; Kenneth M. et al.
US 5366487 A	USPAT	19941122	Fibrillation and tachycardia detection	607/5	600/518	Adams; Theodore P. et al.
US 5366485 A	USPAT	19941122	Apparatus for defibrillation pretreatment of a heart	607/5		Kroll; Mark W. et al.
US 5366484 A	USPAT	19941122	Short-pulse cardioversion system for an implantable cardioverter defibrillator	607/5		Kroll; Mark W.
US 5351687 A	USPAT	19941004	Method and apparatus for non-invasively determining a patient's susceptibility to ventricular arrhythmias	600/409		Kroll; Mark W. et al.
US 5350410 A	USPAT	19940927	Autocapture system for implantable pulse generator	607/28	607/11	Kleks; Jonathan A. et al.
US 5342399 A	USPAT	19940830	Implantable defibrillator system having a small capacitance valve	607/5		Kroll; Mark W.
US 5336245 A	USPAT	19940809	Storage interrogation apparatus for cardiac	607/32	128/904	Adams Theodore P.

			data			et al.
US 5334219 A	USPAT	19940802	Method and apparatus for separate-capacitor cardioversion	607/5		Kroll; Mark W.
US 5330509 A	USPAT	19940719	Method and apparatus for far-field tachycardia termination	607/14		Kroll; Mark W. et al.
US 5325870 A	USPAT	19940705	Multiplexed defibrillation electrode apparatus	607/122		Kroll; Mark W. et al.
US 5314448 A	USPAT	19940524	Process for defibrillation pretreatment of a heart	607/5		Kroll; Mark W. et al.
US 5312443 A	USPAT	19940517	Arrhythmia-detection criteria process for a cardioverter/defibrillator	607/5	128/925; 600/518	Adams; Theodore P. et al.
US 5309919 A	USPAT	19940510	Method and system for recording, reporting, and displaying the distribution of pacing events over time and for using same to optimize programming	600/510	607/26	Snell; Jeffery D. et al.
US 5306291 A	USPAT	19940426	Optimal energy steering for an implantable defibrillator	607/5		Kroll; Mark W. et al.
US 5300110 A	USPAT	19940405	Dirk-based epicardial defibrillation electrode	607/130		Latterell; Scott T. et al.
US 5265623 A	USPAT	19931130	Optimized field defibrillation catheter	607/122		Kroll; Mark W. et al.
US 5258906 A	USPAT	19931102	System for remotely authorizing operation of a device and for automatically generating an invoice based on device usage	705/2	379/106.02; 379/93.12; 705/34	Kroll; Mark W. et al.
US 5257634 A	USPAT	19931102	Low impedance defibrillation catheter electrode	607/122	607/128	Kroll; Mark W.
US 5241960 A	USPAT	19930907	Defibrillator pulse generator	607/5		Anderson; Kenneth M. et al.
US 5237992 A	USPAT	19930824	Implantable pacemaker providing hysteresis in dual-chamber modes	607/18	607/25	Poore; John W.

US 5199429 A	USPAT	19930406	Implantable defibrillator system employing capacitor switching networks	607/5		Kroll; Mark W. et al.
US 5188116 A	USPAT	19930223	Electrocardiographic method and device	600/509	600/516; 600/517	Pommrehn; Mark R. et al.
US 5127402 A	USPAT	19920707	System and method for maintaining stimulation pulse amplitude at battery depletion by self-regulating current drain usage	607/11	607/28	Mann; Brian M. et al.
US 5117834 A	USPAT	19920602	Method and apparatus for non-invasively determining a patient's susceptibility to ventricular arrhythmias	600/518		Kroll; Mark W. et al.
US 5074302 A	USPAT	19911224	Self-adjusting rate-responsive pacemaker and method thereof	607/19		Poore; John W. et al.
US 5040535 A	USPAT	19910820	Average amplitude controlled rate-responsive pacemaker having automatically adjustable control parameters	607/19		Mann; Brian M. et al.
US 5040534 A	USPAT	19910820	Microprocessor controlled rate-responsive pacemaker having automatic rate response threshold adjustment	607/19		Mann; Brian M. et al.
US 5031616 A	USPAT	19910716	Implantable stimulation device having means for self-regulating current drain usage at battery depletion	607/11	607/19; 607/29	Mann; Brian M. et al.
US 4956877 A	USPAT	19900911	Optical fiber reflective signal modulation system	398/170	398/141; 398/168; 398/169	Kroll; Mark W. et al.
US 4947859 A	USPAT	19900814	Bio-acoustic signal sensing device	600/528	381/355; 381/364; 600/586	Brewer; James E. et al.
US 4940053 A	USPAT	19900710	Energy controlled rate-responsive pacemaker	607/19		Mann; Brian M. et al.

			having automatically adjustable control parameters			
US 4940052 A	USPAT	19900710	Microprocessor controlled rate-responsive pacemaker having automatic rate response threshold adjustment	607/17	607/19; 607/30; 607/36	Mann; Brian M. et al.
US 4890774 A	USPAT	19900102	Beverage dispensing system	222/640	141/102; 141/105; 141/128; 141/83; 141/95; 222/644	Poore; John W.
US 4890630 A	USPAT	19900102	Bio-electric noise cancellation system	600/508	128/902; 128/905	Kroll; Mark W. et al.
US 4879760 A	USPAT	19891107	Optical fiber transmissive signal modulation system	398/168	340/870.29	Kroll; Mark W. et al.
US 4832608 A	USPAT	19890523	Electrode belt adapter	439/67	439/465; 600/390; 600/394	Kroll; Mark W.
US 4811156 A	USPAT	19890307	Medical current limiter	361/58	361/101; 600/509	Kroll; Mark W.
US 4775018 A	USPAT	19881004	Load cell assembly	177/134	177/211	Kroll; William P. et al.
US 4769760 A	USPAT	19880906	Terrain biased dynamic multiple threshold synchronization method and apparatus	702/79	324/76.39; 324/76.44; 327/41; 340/825.2; 375/317; 375/371; 600/525	Kroll; Mark W. et al.
US 4763660 A	USPAT	19880816	Flexible and disposable electrode belt device	600/391	439/77; 600/397; 607/149; 607/152	Kroll; Mark W. et al.
US 4744369 A	USPAT	19880517	Medical current limiting circuit	600/509	128/908; 323/312; 323/908; 327/313; 361/18; 361/58	Kroll; Mark W.
US 4714121 A	USPAT	19871222	Wheel scale assembly	177/134	177/164;	Kroll;

					177/255	William P. et al.
US 4712555 A	USPAT	19871215	Physiologically responsive pacemaker and method of adjusting the pacing interval thereof	607/17		Thornander; Hans T. et al.
US 4672977 A	USPAT	19870616	Lung sound cancellation method and apparatus	600/528	600/390; 600/586	Kroll; Mark W.
US 4672976 A	USPAT	19870616	Heart sound sensor	600/528	381/364; 381/385; 600/586	Kroll; Mark W.